

Title (en)  
CYTIDINE DEAMINASE cDNA AS A POSITIVE SELECTABLE MARKER FOR GENE TRANSFER, GENE THERAPY AND PROTEIN SYNTHESIS

Title (de)  
CYTIDINE-DEAMINASE-cDNA ALS POSITIVSELEKTIERBARER MARKER FÜR GENTRANSFER, GENTHERAPIE UND PROTEINSYNTHESE

Title (fr)  
ADN COMPLEMENTAIRE DE CYTIDINE DEAMINASE UTILISE COMME MARQUEUR POSITIF POUVANT ETRE SELECTIONNE POUR LE TRANSFERT DE GENE, LA THERAPIE GENIQUE ET LA SYNTHESE DE PROTEINE

Publication  
**EP 0851929 A1 19980708 (EN)**

Application  
**EP 96923794 A 19960719**

Priority  
• CA 9600494 W 19960719  
• US 50913895 A 19950731

Abstract (en)  
[origin: US6083719A] The present invention relates to a DNA sequence for the human cytidine deaminase that has been engineered into an eukaryotic expression vector, thereby permitting cytidine deaminase expression in mammalian cells. Cytidine deaminase expression confers resistance to cytosine nucleoside analogs, such as cytosine arabinoside, and can be used as a positive selectable marker. The expression of cytidine deaminase in cells protects them from the toxic effects of cytosine nucleoside analogs. Such a resistance provides applications for gene therapy of malignant, immune and viral diseases. A bacterial expression vector containing the gene can be used to produce cytidine deaminase in large quantities.

IPC 1-7  
**C12N 15/55**; **A61K 48/00**

IPC 8 full level  
**C12N 15/09** (2006.01); **A61K 31/00** (2006.01); **A61K 38/50** (2006.01); **A61K 48/00** (2006.01); **A61P 43/00** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 9/78** (2006.01); **C12N 15/55** (2006.01); **C12R 1/19** (2006.01); **C12R 1/49** (2006.01); **C12R 1/91** (2006.01)

CPC (source: EP US)  
**A61K 38/50** (2013.01 - EP US); **A61P 43/00** (2017.12 - EP); **C12N 9/78** (2013.01 - EP US); **A61K 48/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 9705254A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 6083719 A 20000704**; AU 6410596 A 19970226; CA 2228378 A1 19970213; EP 0851929 A1 19980708; JP H11509735 A 19990831; WO 9705254 A1 19970213

DOCDB simple family (application)  
**US 96876897 A 19971027**; AU 6410596 A 19960719; CA 2228378 A 19960719; CA 9600494 W 19960719; EP 96923794 A 19960719; JP 50704697 A 19960719